



ABSTRACT OF THE DISCLOSURE

A device comprising at least one absorber, at least one cold separator from which is extracted a gaseous phase that feeds the absorber, at least one recycling to said cold separator of at least a portion of liquid effluent that is obtained from the absorber and which is mixed with the feedstock, at least one heat exchanger for cooling the mixture prior to the recycling, at least one conduit for recovering a light hydrocarbon-enriched liquid fraction obtained from the cold separator and at least one conduit for evacuating gases from the absorber, said device being useable for the treatment of a hydrogen-rich gas or for the recovery of a hydrocarbon-enriched liquid.